Message	
From:	"Rebecca S Shaftel" ["Rebecca S Shaftel" <rsshaftel@uaa.alaska.edu>]</rsshaftel@uaa.alaska.edu>
Sent:	10/20/2011 11:04:01 PM
To:	dchambers@csp2.org
CC:	Phil North/R10/USEPA/US@EPA
Subject:	Pebble Tailings Dam Volumes
Attachments:	rsshaftel@uaa.alaska.edu
Hi Dave,	
tailings ponds volume calcula Pebble's figure	with Phil North on EPA's watershed assessment for Bristol Bay. We have been using GIS to estimate volumes for near the mine site that could hold the published tons of ore (pg. 280 in the 2/15/11 report by Ghaffari et al.). The tions were based on hand digitized polygons and the ASTER DEM. We georeferenced the location for TSF G from a sand also digitized three other possible tailings pond locations. In order to convert to tons, we used the value of 1.36 I on a USGS publication (Porter and Bleiwas OFR 03-143).
ktons. I origina you have any s	nave estimated the total tons of ore held in TSF G at 1.5M ktons, which is much lower than Pebble's published 2.0M ally contacted Marcus Geist at TNC to see if he had conducted a similar exercise and he suggested I contact you. Do uggestions given our methodology? It would be especially helpful if you might direct us to a better estimate for the m one of Pebble's published documents.
Thanks for you	r help. Please feel free to call me if you'd like to discuss over the phone.
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